19. *Groupoids; OD-structures; polytopes; enhancement of symmetry* (6 pages; 110 references)
20. *Characters* (1 page; 4 references)
21. *Homology, similarity* (3 pages; 33 references)
22. *Semicontinua, continua* (Lie groups) (1 page; 17 references)
23. *Coloured point and space groups in E^n* ($n = 0, 1, 2, \ldots$); *magnetic structures* (16 pages; 282 references)
24. *Generalised crystallography* (*modulated structures, space-time groups, non-Euclidean spaces*), *modulated structures* (10 pages; 178 references)
25. *Quadratic forms, theory of reduction, translation lattices, geometry of numbers, twins, relation: structure-morphology* (19 pages; 307 references)
26. *Polygons and polyhedra* (12 pages; 213 references)
27. *Polytopes* ($n \geq 4$) (8 pages; 129 references)
28. *Theory of graphs, topology* (5 pages; 78 references)
29. *Isomers, molecular structure* (2 pages; 24 references)
30. (*a*) *General chemistry, crystallography, mathematics and physics*; (*b*) *History*; (*c*) *Symmetry in philosophy, arts and biology* (72 pages; 1340 references).

Appendix. *Theory of Patterson syntheses and vector sets* (but mainly only when point 'atoms' are considered; otherwise it is part of diffraction theory) (12 pages; 159 references).

Within each topic the titles are basically arranged alphabetically and within each author chronologically, although there are a significant number of (non-alphabetical) addenda.

The original bibliography (but not the addenda) has been checked as far as possible by R. Allmann (Marburg/Lahn), L. N. Smirnova and L. A. Shuvalov (Moscow) and D. G. Watson (Cambridge). Requests, stating which sections are required, should be sent to The Executive Secretary, International Union of Crystallography, 5 Abbey Square, Chester CH1 2HU, England. Photocopies will be sent at reduced size, *i.e.* two pages per A4 sheet of paper.

Notes and News

Suggested guidelines for the publication of Rietveld analyses and pattern decomposition studies

A letter from R. A. Young, E. Prince and R. A. Sparks to the Editor of *Journal of Applied Crystallography* has been published [*J. Appl. Cryst.* (1982), **15**, 357–359] with the above title. The first paragraphs read as follows:

At the request of the Commission on Journals, we drew up some draft guidelines for the publication of Rietveld analyses and of pattern decomposition studies with powder diffraction patterns. The draft was sent for comment to some 25 persons in Europe, Australia, Japan, and the USA. We are grateful for their responses, which both were generally supportive of the idea that there be guidelines and were most helpful in illuminating oversights and other deficiencies. Not all suggestions were incorporated in the revised draft, of course (in fact, a number were mutually contradictory), but all were carefully considered and many were incorporated in the version which follows.

In presenting these suggested guidelines, we emphasize that we offer them as guidelines, not rigid rules. They are intended primarily to be helpful to the co-editors; they are not intended to infringe on a co-editor's judgement of scientific worth of a submitted manuscript, nor should they be allowed to do so. For the most part, these suggested guidelines address matters of format and presentation of details, and not the fundamental question of scientific interest and worth of the submission. It is primarily for the making of such fundamental judgements that the co-editor system exists; for the health of our science it cannot and should not be replaced with a system of blind rules on a check-off sheet. It is against this background of more overreaching considerations that we offer the following suggestions for guidelines to assist, but not to control or coerce, the co-editors in their acceptance decisions.

Book Reviews

Works intended for notice in this column should be sent direct to the Book-Review Editor (J. H. Robertson, School of Chemistry, University of Leeds, Leeds LS2 9JT, England). As far as practicable books will be reviewed in a country different from that of publication.

La structure de la matière — du ciel bleu à la matière plastique. By A. GUINIER. Pp. 288. Paris: Hachette, 1980. Price 140.18 FF.

This is the first of a series intended for science teachers in secondary schools in order to keep them informed of current developments in science. After a short discussion of atomic structure and chemical bonds, the author classifies matter in two states: the disordered (the perfect gas) and the ordered (the perfect crystal). A major part of the book is concerned with the field between these two extremes from liquids *via* colloids, liquid crystals, polymers, crystalline aggregates with their preferred orientations, to real crystals with their defects.

While the work covers the whole field of crystallography, there is little use of mathematics. The author's aim is not to give rigorous proofs of physical laws but to demonstrate the consequences of these laws in everyday life.

Many university teachers would do well to incorporate in